

Recovery Plan Action Status

Plan Name: Recovery Plan for the Howell's Spectacular Thelypody (*Thelypodium howellii* ssp. *spectabilis*)

Plan Status: Final

Plan Date: 03-Jun-02

Lead Agency: USFWS

Lead Office: Oregon Fish And Wildlife Office

(2503)

231-6179)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Howell's spectacular thelypody (<i>Thelypodium howellii</i> <i>spectabilis</i>)	1	1	Protect essential habitat and control threats	Ongoing Current	FY 2000 - FY 2004		Baker County, Oregon, U.S. Fish and Wildlife Service, Natural Resources Conservation Service	Acquisition, Management, Management: Depredation Control, Management: Habitat Maintenance and Manipulation, Management: Land Use, Management: Planning, Management: Propagation, Management: Reintroduction, Research, Research: Demographic Studies, Research: Habitat Requirements, Research: Habitat Status, Research: Management Techniques, Research: Population Surveys, Research: Propagation, Research: Reintroduction	Contract, Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Species Expert	Implementation is expected to continue after delisting
Howell's spectacular thelypody (<i>Thelypodium howellii</i> <i>spectabilis</i>)	1	1.1	Prioritize unprotected sites for protection efforts	Not Started			U.S. Fish and Wildlife Service, The Nature Conservancy	Management: Planning	Internal Administrative, Species Expert	
Howell's spectacular thelypody (<i>Thelypodium howellii</i> <i>spectabilis</i>)	1	1.2	Promote interim protection of thelypody sites on private land	Ongoing Current	FY 2009		U.S. Fish and Wildlife Service, The Nature Conservancy, Natural Resources Conservation Service	Management: General	Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Species Expert	Costs dependant on landowner participation. Implementation is expected to continue after delisting

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Howell's spectacular thelypody (Thelypodium howellii spectabilis)	1	1.3	Secure permanent protection through conservation easements or land acquisition	Partially Complete	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, The Nature Conservancy	Acquisition: Easement, Acquisition: General, Acquisition: Lease	Internal Field Assistance	Costs depend on site availability. Implementation is expected to continue after delisting. Haines Rodeo Grounds property purchased as mitigation by FHA. Permanent Federal easement on Miles Property. Permanent WRP easement at Balddock Slough (introduction site).
Howell's spectacular thelypody (Thelypodium howellii spectabilis)	1	1.4	Characterize thelypody habitat	Ongoing Current	FY 2000 - FY 2004		Oregon Natural Heritage Program, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, The Nature Conservancy, Natural Resources Conservation Service	Research, Research: Habitat Requirements	Contract, Internal Field Assistance, Internal Technical Assistance, Species Expert	
Howell's spectacular thelypody (Thelypodium howellii spectabilis)	1	1.5	Identify and protect suitable unoccupied habitat	Ongoing Not Current	FY 2000 - FY 2004		U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Research: General	Contract, Graduate Student, Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Species Expert	Costs depend on amount of habitat identified. Implementation is expected to continue after delisting.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Howell's spectacular thelpody (Thelypodium howellii spectabilis)	1	1.6	Identify and control imminent threats	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service	Management, Management: Depredation Control, Management: General, Management: Habitat Maintenance and Manipulation, Management: Land Use, Management: Planning, Management: Predator and Competitor Control, Research, Research: Competition, Research: Management Techniques, Research: Predation	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	Implementation is expected to continue after delisting
Howell's spectacular thelpody (Thelypodium howellii spectabilis)	1	1.6.1	Manage livestock grazing	Ongoing Current	FY 2000 - FY 2004		U.S. Bureau of Land Management, U.S. Fish and Wildlife Service	Management: Depredation Control, Management: Habitat Maintenance and Manipulation, Management: Land Use, Management: Planning	Contract, Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Species Expert	Implementation is expected to continue after delisting
Howell's spectacular thelpody (Thelypodium howellii spectabilis)	1	1.6.2	Construct and maintain fencing	Ongoing Not Current	FY 2000 - FY 2004		U.S. Bureau of Land Management, U.S. Fish and Wildlife Service	Management: General	Contract	Costs depend on amount of fencing. Implementation is expected to continue after delisting.
Howell's spectacular thelpody (Thelypodium howellii spectabilis)	2	1.6.3	Control non-native plant species invasion	Ongoing Current	FY 2000 - FY 2004		Baker County, Oregon, U.S. Fish and Wildlife Service	Management: Habitat Maintenance and Manipulation, Management: Predator and Competitor Control	Contract, Internal Field Assistance, Internal Technical Assistance, Species Expert, Volunteer	Implementation is expected to continue after delisting
Howell's spectacular thelpody (Thelypodium howellii spectabilis)	2	1.6.4	Discourage agricultural or urban conversion of habitat	Unknown			Baker County, Oregon, Union County, Oregon, U.S. Fish and Wildlife Service, Natural Resources Conservation Service	Other: Information and Education	Internal Technical Assistance, Species Expert, Volunteer	Implementation is expected to continue after delisting

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Howell's spectacular thelypody (Thelypodium howellii spectabilis)	2	1.6.5	Maintain appropriate hydrologic regime	Unknown			U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers, Natural Resources Conservation Service	Management: Habitat Maintenance and Manipulation	Contract	Hydrology is influenced by factors such as adjacent agricultural and urban uses. Implementation is expected to continue after delisting
Howell's spectacular thelypody (Thelypodium howellii spectabilis)	1	1.6.6	Manage herbicide and pesticide use	Partially Complete	FY 2009		Baker County, Oregon, Union County, Oregon, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Management: Predator and Competitor Control, Research: Management Techniques	Contract, Internal Field Assistance, Internal Technical Assistance, Species Expert	Implementation is expected to continue after delisting
Howell's spectacular thelypody (Thelypodium howellii spectabilis)	2	2	Continue to survey for additional sites	Ongoing Not Current	FY 2000 - FY 2004		U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Research: Habitat Status, Research: Population Surveys	Contract, Graduate Student, Internal Field Assistance, Species Expert	Implementation is expected to continue after delisting
Howell's spectacular thelypody (Thelypodium howellii spectabilis)	1	3	Conduct essential research	Ongoing Current	FY 2000 - FY 2004		Oregon Department of Agriculture, Oregon Natural Heritage Program, U.S. Fish and Wildlife Service, The Nature Conservancy, Baker County Soil and Water Conservation District	Management: Land Use, Research	Contract, Graduate Student, Species Expert	Implementation is expected to continue after delisting
Howell's spectacular thelypody (Thelypodium howellii spectabilis)	2	3.1	Research effects of habitat fragmentation and population viability	Not Started			Oregon Department of Agriculture, The Nature Conservancy, Universities	Research	Contract, Graduate Student, Species Expert	Implementation is expected to continue after delisting
Howell's spectacular thelypody (Thelypodium howellii spectabilis)	1	3.2	Research propagation techniques and feasibility of reintroduction	Ongoing Current	FY 2000 - FY 2004		Oregon Department of Agriculture, Berry Botanic Garden	Research: Propagation, Research: Reintroduction	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Howell's spectacular thelypody (Thelypodium howellii spectabilis)	2	3.3	Develop and implement plans for reintroduction	Ongoing Current	FY 2000 - FY 2004		Oregon Department of Agriculture, Oregon Natural Heritage Program, U.S. Fish and Wildlife Service	Research: Habitat Requirements, Research: Propagation, Research: Reintroduction	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	Costs depend on number of sites identified for potential reintroduction. Implementation is expected to continue after delisting
Howell's spectacular thelypody (Thelypodium howellii spectabilis)	3	3.4	Consider using prescribed fire as a management tool	Not Started			U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, The Nature Conservancy	Management: Habitat Maintenance and Manipulation	Contract, Internal Field Assistance, Internal Technical Assistance	Costs depend on appropriateness and feasibility of implementation
Howell's spectacular thelypody (Thelypodium howellii spectabilis)	2	4	Develop and implement detailed monitoring plans for all sites	Ongoing Current	FY 2000 - FY 2004		Oregon Natural Heritage Program, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service	Management	Contract, Internal Field Assistance, Internal Technical Assistance, Species Expert	Costs depend on number of sites that will be monitored. Implementation is expected to continue after delisting
Howell's spectacular thelypody (Thelypodium howellii spectabilis)	1	5	Collect and provide permanent storage for seeds	Ongoing Current	FY 2000 - FY 2004		Berry Botanic Garden, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service	Management: Other	Contract, Species Expert	Initial costs include seed collection. Implementation is expected to continue after delisting
Howell's spectacular thelypody (Thelypodium howellii spectabilis)	2	6	Secure funding for recovery actions	Ongoing Current	FY 2000 - FY 2004		U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, The Nature Conservancy	Other	Internal Administrative, Internal Technical Assistance, Species Expert	
Howell's spectacular thelypody (Thelypodium howellii spectabilis)	3	7	Revise and validate recovery objectives	Not Started			U.S. Fish and Wildlife Service	Management	Internal Administrative	Plan should be revised after 5 years